

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/09/2015

Reviewed on 06/09/2015

## 1 Identification

- **Product identifier**
- **Trade name:** OIL RED O SOLUTION
- **Article number:** 26504-01
- **CAS Number:**  
57-55-6
- **EC number:**  
200-338-0
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

propane-1,2-diol

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- **Hazard statements**

Harmful if swallowed.  
Causes skin and eye irritation.  
Suspected of causing cancer.

- **Precautionary statements**

Wear protective gloves.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see on this label).  
If swallowed: Call a poison center/doctor if you feel unwell.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Rinse mouth.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description**

57-55-6 propane-1,2-diol

- **Identification number(s)**

- **EC number:** 200-338-0

### 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

57-55-6 propane-1,2-diol

WEEL Long-term value: 10 mg/m<sup>3</sup>

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: Colorless

- **Odor:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** neutral

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|   |   |
|---|---|
| · <b>Change in condition</b>                                      |   |
| Melting point/Melting range:                                      | -68 °C (-90 °F)                               |
| Boiling point/Boiling range:                                      | 185 °C (365 °F)                               |
| · <b>Flash point:</b>   | > 100 °C (> 212 °F)                           |
| · <b>Flammability (solid, gaseous):</b>                           | Not flammable.                                |
| · <b>Ignition temperature:</b>                                    | 371 °C (700 °F)                               |
| · <b>Decomposition temperature:</b>                               | Not determined.                               |
| · <b>Auto igniting:</b>   | Not determined.                               |
| · <b>Danger of explosion:</b>                                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>  |   |
| Lower:  | 2.6 Vol %                                     |
| Upper:  | 12.6 Vol %                                    |
| · <b>Vapor pressure at 20 °C (68 °F):</b>                         | 0.11 hPa                                      |
| · <b>Density at 20 °C (68 °F):</b>                                | 1.0362 g/cm <sup>3</sup> (8.647 lbs/gal)      |
| · <b>Relative density</b>   | Not determined.                               |
| · <b>Vapour density</b>   | Not determined.                               |
| · <b>Evaporation rate</b>   | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>                  |   |
|   | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b> Not determined. |   |
| · <b>Viscosity:</b>   |   |
| Dynamic at 25 °C (77 °F):   | 46 mPas                                       |
| Kinematic:  | Not determined.                               |
| Organic solvents:   | 99.5 %  |
| VOC content:  | 99.5 %  |
|   | 995.0 g/l / 8.30 lb/gl                        |
| · <b>Other information</b>  | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 57-55-6 propane-1,2-diol

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 2000 mg/kg (rat)     |
| Dermal | LD50 | 20800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 1 (Assessment by list): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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## 14 Transport information

|  |                 |
|--|-----------------|
| <i>· UN-Number</i>   |                 |
| <i>· DOT, ADR, IMDG, IATA</i>  | Void            |
| <i>· UN proper shipping name</i>   |                 |
| <i>· DOT, ADR, IMDG, IATA</i>  | Void            |
| <i>· Transport hazard class(es)</i>  |                 |
| <i>· DOT, ADR, IMDG, IATA</i>  |                 |
| <i>· Class</i>   | Void            |
| <i>· Packing group</i>   |                 |
| <i>· DOT, ADR, IMDG, IATA</i>  | Void            |
| <i>· Environmental hazards:</i>  |                 |
| <i>· Marine pollutant:</i>   | No              |
| <i>· Special precautions for user</i>  | Not applicable. |
| <i>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i> | Not applicable. |
| <i>· UN "Model Regulation":</i>  | -               |

## 15 Regulatory information

|   |  |
|---|--|
| <i>· Safety, health and environmental regulations/legislation specific for the substance or mixture</i> |  |
| <i>· Sara</i>   |  |
| <i>· Section 355 (extremely hazardous substances):</i>  |  |
| Substance is not listed.  |  |
| <i>· Section 313 (Specific toxic chemical listings):</i>  |  |
| Substance is not listed.  |  |
| <i>· TSCA (Toxic Substances Control Act):</i>   |  |
| Substance is listed.  |  |
| <i>· Proposition 65</i>   |  |
| <i>· Chemicals known to cause cancer:</i>   |  |
| Substance is not listed.  |  |
| <i>· Chemicals known to cause reproductive toxicity for females:</i>                                    |  |
| Substance is not listed.  |  |
| <i>· Chemicals known to cause reproductive toxicity for males:</i>                                      |  |
| Substance is not listed.  |  |
| <i>· Chemicals known to cause developmental toxicity:</i>   |  |
| Substance is not listed.  |  |
| <i>· Carcinogenic categories</i>  |  |
| <i>· EPA (Environmental Protection Agency)</i>  |  |
| Substance is not listed.  |  |
| <i>· TLV (Threshold Limit Value established by ACGIH)</i>   |  |
| Substance is not listed.  |  |

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

propane-1,2-diol

· **Hazard statements**

Harmful if swallowed.

Causes skin and eye irritation.

Suspected of causing cancer.

· **Precautionary statements**

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If swallowed: Call a poison center/doctor if you feel unwell.

If exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 06/09/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B**Carc. 2: Carcinogenicity, Hazard Category 2*

US

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 09.06.2015

Revision: 09.06.2015

## 1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

· **Trade name:** OIL RED O SOLUTION

· **Article number:** 26504-01

· **CAS Number:**

57-55-6

· **EC number:**

200-338-0

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Laboratory chemicals

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

ProSciTech Pty Ltd

11 Carlton Street, Kirwan QLD 4817 Australia

Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Emgrid Australia Pty. Ltd.

P.O. Box 118

The Patch VIC 3792

Australia

Tel: 03 9752 1785

Fax: 03 9752 1784

Website: www.emgrid.com.au

· **Further information obtainable from:** Product safety department

· **Emergency telephone number:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## 2 Hazards identification

· **Classification of the substance or mixture**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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· **Label elements**· **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS07 GHS08

· **Signal word** Warning· **Hazard-determining components of labelling:**

propane-1,2-diol

· **Hazard statements**

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

· **Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

**IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell.

**IF exposed or concerned:** Get medical advice/attention.

**If skin irritation occurs:** Get medical advice/attention.

**If eye irritation persists:** Get medical advice/attention.

Rinse mouth.

**IF ON SKIN:** Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterisation: Substances**· **CAS No. Description**

57-55-6 propane-1,2-diol

· **Identification number(s)**

· **EC number:** 200-338-0

AU

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**Safety data sheet**  
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Trade name: OIL RED O SOLUTION

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#### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

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Trade name: OIL RED O SOLUTION

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## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

57-55-6 propane-1,2-diol

|     |   |
|-----|---|
| NES | Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm<br>*vapour*particulates;**particulates only |
|-----|---|

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Colourless

· **Odour:** Characteristic

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**Safety data sheet**  
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|   |   |
|---|---|
| · <b>Odour threshold:</b>   | Not determined.                               |
| · <b>pH-value:</b>  | neutral                                       |
| · <b>Change in condition</b><br><b>Melting point/Melting range:</b> | -68 °C  |
| <b>Boiling point/Boiling range:</b>                                 | 185 °C  |
| · <b>Flash point:</b>   | > 100 °C                                      |
| · <b>Flammability (solid, gaseous):</b>                             | Not applicable.                               |
| · <b>Ignition temperature:</b>                                      | 371 °C  |
| · <b>Decomposition temperature:</b>                                 | Not determined.                               |
| · <b>Self-igniting:</b>   | Not determined.                               |
| · <b>Danger of explosion:</b>                                       | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b><br><b>Lower:</b>                         | 2.6 Vol %                                     |
| <b>Upper:</b>   | 12.6 Vol %                                    |
| · <b>Vapour pressure at 20 °C:</b>                                  | 0.11 hPa                                      |
| · <b>Density at 20 °C:</b>  | 1.0362 g/cm <sup>3</sup>                      |
| · <b>Relative density</b>   | Not determined.                               |
| · <b>Vapour density</b>   | Not determined.                               |
| · <b>Evaporation rate</b>   | Not determined.                               |
| · <b>Solubility in / Miscibility with water:</b>                    | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b>                   | Not determined.                               |
| · <b>Viscosity:</b><br><b>Dynamic at 25 °C:</b>                     | 46 mPas                                       |
| <b>Kinematic:</b>   | Not determined.                               |
| · <b>Solvent content:</b><br><b>Organic solvents:</b>               | 99.5 %  |
| <b>VOC (EC)</b>   | 99.50 %                                       |
| · <b>Other information</b>  | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

AU

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### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

57-55-6 propane-1,2-diol

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 2000 mg/kg (rat)     |
| Dermal | LD50 | 20800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
Carc. 2

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                  |      |
|----------------------------------|------|
| · <b>UN-Number</b>               |      |
| · <b>ADG, ADN, IMDG, IATA</b>    | Void |
| · <b>UN proper shipping name</b> |      |
| · <b>ADG, ADN, IMDG, IATA</b>    | Void |

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- |  |                 |
|--|-----------------|
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>ADG, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>ADG, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | -               |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Chemical Substances**

Substance is listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

Substance is not listed.

- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning

- **Hazard-determining components of labelling:**

propane-1,2-diol

- **Hazard statements**

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

- **Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

**IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell.

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*IF exposed or concerned: Get medical advice/attention.*  
*If skin irritation occurs: Get medical advice/attention.*  
*If eye irritation persists: Get medical advice/attention.*  
 Rinse mouth.  
*IF ON SKIN: Wash with plenty of water.*  
*Take off contaminated clothing and wash it before reuse.*  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*VOC: Volatile Organic Compounds (USA, EU)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*Acute Tox. 4: Acute toxicity, Hazard Category 4*  
*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*  
*Carc. 2: Carcinogenicity, Hazard Category 2*

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/09/2015

Reviewed on 06/09/2015

## 1 Identification

- **Product identifier**
- **Trade name:** OIL RED O SOLUTION
- **Article number:** 26504-01
- **CAS Number:**  
57-55-6
- **EC number:**  
200-338-0
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Not applicable.



Harmful

Limited evidence of a carcinogenic effect.



Irritant

Irritating to eyes.

- **Information concerning particular hazards for human and environment:** Not applicable.

- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

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Trade name: OIL RED O SOLUTION

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· **Code letter and hazard designation of product:**



Harmful

· **Risk phrases:**

Irritating to eyes.  
Limited evidence of a carcinogenic effect.

· **Safety phrases:**

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing and gloves.  
This material and its container must be disposed of as hazardous waste.

· **Hazard description:**

· **WHMIS-symbols:**

D2B - Toxic material causing other toxic effects



· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

57-55-6 propane-1,2-diol

· **Identification number(s)**

· **EC number:** 200-338-0

## 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.  
· **After skin contact:** Generally the product does not irritate the skin.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

|                                     |  |
|-------------------------------------|--|
| <b>57-55-6 propane-1,2-diol</b>     |  |
| EV                                  | Long-term value: 155* 10** mg/m <sup>3</sup> , 50* ppm |
| *vapour and aerosol; **aerosol only |  |

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Color:** Colorless

· **Odor:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** neutral

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|   |   |
|---|---|
| · <b>Change in condition</b>                                      |   |
| Melting point/Melting range:                                      | -68 °C  |
| Boiling point/Boiling range:                                      | 185 °C  |
| · <b>Flash point:</b>   | > 100 °C                                      |
| · <b>Flammability (solid, gaseous):</b>                           | Not flammable.                                |
| · <b>Ignition temperature:</b>                                    | 371 °C  |
| · <b>Decomposition temperature:</b>                               | Not determined.                               |
| · <b>Auto igniting:</b>   | Not determined.                               |
| · <b>Danger of explosion:</b>                                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>  |   |
| Lower:  | 2.6 Vol %                                     |
| Upper:  | 12.6 Vol %                                    |
| · <b>Vapor pressure at 20 °C:</b>                                 | 0.11 hPa                                      |
| · <b>Density at 20 °C:</b>  | 1.0362 g/cm <sup>3</sup>                      |
| · <b>Relative density</b>   | Not determined.                               |
| · <b>Vapour density</b>   | Not determined.                               |
| · <b>Evaporation rate</b>   | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>                  |   |
|   | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b> Not determined. |   |
| · <b>Viscosity:</b>   |   |
| Dynamic at 25 °C:   | 46 mPas                                       |
| Kinematic:  | Not determined.                               |
| Organic solvents:   | 99.5 %  |
| · <b>Other information</b>  | No further relevant information available.    |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

|   |      |                      |
|---|------|----------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                      |
| <b>57-55-6 propane-1,2-diol</b>                               |      |                      |
| Oral  | LD50 | 2000 mg/kg (rat)     |
| Dermal  | LD50 | 20800 mg/kg (rabbit) |

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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                    |      |
|------------------------------------|------|
| · <b>UN-Number</b>                 |      |
| · <b>DOT, TDG, ADN, IMDG, IATA</b> | Void |
| · <b>UN proper shipping name</b>   |      |
| · <b>DOT, TDG, ADN, IMDG, IATA</b> | Void |

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- |  |                 |
|--|-----------------|
| <b>· Transport hazard class(es)</b>  |                 |
| <b>· DOT, TDG, ADN, IMDG, IATA</b>   |                 |
| <b>· Class</b>   | Void            |
| <b>· Packing group</b>   |                 |
| <b>· DOT, TDG, IMDG, IATA</b>  | Void            |
| <b>· Environmental hazards:</b>  |                 |
| <b>· Marine pollutant:</b>   | No              |
| <b>· Special precautions for user</b>  | Not applicable. |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>  | -               |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

|  |
|--|
| <b>· Section 355 (extremely hazardous substances):</b> |
|--|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|  |
|--|
| <b>· Section 313 (Specific toxic chemical listings):</b> |
|--|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|   |
|---|
| <b>· TSCA (Toxic Substances Control Act):</b> |
|---|

|                      |
|----------------------|
| Substance is listed. |
|----------------------|

|                         |
|-------------------------|
| <b>· Proposition 65</b> |
|-------------------------|

|   |
|---|
| <b>· Chemicals known to cause cancer:</b> |
|---|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|  |
|--|
| <b>· Chemicals known to cause reproductive toxicity for females:</b> |
|--|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|  |
|--|
| <b>· Chemicals known to cause reproductive toxicity for males:</b> |
|--|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|   |
|---|
| <b>· Chemicals known to cause developmental toxicity:</b> |
|---|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|                                  |
|----------------------------------|
| <b>· Carcinogenic categories</b> |
|----------------------------------|

|  |
|--|
| <b>· EPA (Environmental Protection Agency)</b> |
|--|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|   |
|---|
| <b>· TLV (Threshold Limit Value established by ACGIH)</b> |
|---|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|   |
|---|
| <b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |
|---|

|                          |
|--------------------------|
| Substance is not listed. |
|--------------------------|

|                                       |
|---------------------------------------|
| <b>· Canadian substance listings:</b> |
|---------------------------------------|

|  |
|--|
| <b>· Canadian Domestic Substances List (DSL)</b> |
|--|

|                      |
|----------------------|
| Substance is listed. |
|----------------------|

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· **Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

Substance is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Harmful

· **Risk phrases:**

Irritating to eyes.

Limited evidence of a carcinogenic effect.

· **Safety phrases:**

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing and gloves.

This material and its container must be disposed of as hazardous waste.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 06/09/2015 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

Carc. 2: Carcinogenicity, Hazard Category 2

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 09.06.2015

Revision: 09.06.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** OIL RED O SOLUTION
- **Article number:** 26504-01
- **CAS Number:**  
57-55-6
- **EC number:**  
200-338-0
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
propane-1,2-diol

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- **Hazard statements**
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H351 Suspected of causing cancer.
- **Precautionary statements**
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P281 Use personal protective equipment as required.
  - P321 Specific treatment (see on this label).
  - P362 Take off contaminated clothing and wash before reuse.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
  - 57-55-6 propane-1,2-diol
- **Identification number(s)**
- **EC number:** 200-338-0

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

57-55-6 propane-1,2-diol

|     |   |
|-----|---|
| WEL | Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm |
|-----|---|

|  |   |
|--|---|
|  | *total vapour and particulates **particulates |
|--|---|

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Liquid          |
| · <b>Colour:</b>          | Colourless      |
| · <b>Odour:</b>           | Characteristic  |
| · <b>Odour threshold:</b> | Not determined. |

- **pH-value:** neutral

- **Change in condition**

|                                       |        |
|---------------------------------------|--------|
| · <b>Melting point/Melting range:</b> | -68 °C |
| · <b>Boiling point/Boiling range:</b> | 185 °C |

- **Flash point:** > 100 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 371 °C

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

|                 |            |
|-----------------|------------|
| · <b>Lower:</b> | 2.6 Vol %  |
| · <b>Upper:</b> | 12.6 Vol % |

- **Vapour pressure at 20 °C:** 0.11 hPa

|                            |                          |
|----------------------------|--------------------------|
| · <b>Density at 20 °C:</b> | 1.0362 g/cm <sup>3</sup> |
| · <b>Relative density</b>  | Not determined.          |
| · <b>Vapour density</b>    | Not determined.          |
| · <b>Evaporation rate</b>  | Not determined.          |

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

|                            |         |
|----------------------------|---------|
| · <b>Dynamic at 25 °C:</b> | 46 mPas |
|----------------------------|---------|

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|                                |  |
|--------------------------------|--|
| <b>Kinematic:</b>              | Not determined.                            |
| <b>· Solvent content:</b>      |  |
| <b>Organic solvents:</b>       | 99.5 %                                     |
| <b>VOC (EC)</b>                | 99.50 %                                    |
| <b>· 9.2 Other information</b> | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

|  |      |                      |
|--|------|----------------------|
| <b>· LD/LC50 values relevant for classification:</b> |      |                      |
| <b>57-55-6 propane-1,2-diol</b>                      |      |                      |
| Oral   | LD50 | 2000 mg/kg (rat)     |
| Dermal   | LD50 | 20800 mg/kg (rabbit) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Carc. 2

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                                    | Void            |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | Void            |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void            |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                          | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>       | Not applicable. |
| · <b>UN "Model Regulation":</b>   | -               |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent

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*LD50: Lethal dose, 50 percent**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Carc. 2: Carcinogenicity, Hazard Category 2*

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## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

### · 1.1 Productidentificatie

· **Handelsnaam:** OIL RED O SOLUTION

· **Artikelnummer:** 26504-01

· **CAS-nummer:**

57-55-6

· **EC-nummer:**

200-338-0

### · 1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën

### · 1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad

#### · **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtingengevende sector:** Product safety department

### · 1.4 Telefoonnummer voor noodgevallen:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

### · 2.1 Indeling van de stof of het mengsel

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS08 gezondheidsgevaar

Carc. 2 H351 Verdacht van het veroorzaken van kanker.



GHS07

Acute Tox. 4 H302 Schadelijk bij inslikken.

Skin Irrit. 2 H315 Veroorzaakt huidirritatie.

### · 2.2 Etiketteringselementen

· **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**

De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

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· **Gevarenpictogrammen**



GHS07 GHS08

· **Signaalwoord** Waarschuwing

· **Gevaaraanduidende componenten voor de etikettering:**

propaan-1,2-diol

· **Gevarenaanduidingen**

H302 Schadelijk bij inslikken.

H315 Veroorzaakt huidirritatie.

H351 Verdacht van het veroorzaken van kanker.

· **Veiligheidsaanbevelingen**

P280 Beschermende handschoenen/beschermende kleding/oogbescherming/gelaatsbescherming dragen.

P281 De nodige persoonlijke beschermingsuitrusting gebruiken.

P321 Specifieke behandeling vereist (zie op dit etiket).

P362 Verontreinigde kleding uittrekken en wassen alvorens deze opnieuw te gebruiken.

P405 Achter slot bewaren.

P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

· **2.3 Andere gevaren**

· **Resultaten van PBT- en zPzB-beoordeling**

· **PBT:** Niet bruikbaar.

· **zPzB:** Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

· **3.1 Chemische karakterisering: Stoffen**

· **CAS-Nr. omschrijving**

57-55-6 propaan-1,2-diol

· **Identificatienummer(s)**

· **EC-nummer:** 200-338-0

## RUBRIEK 4: Eerstehulpmaatregelen

· **4.1 Beschrijving van de eerstehulpmaatregelen**

· **Na het inademen:** Frisse lucht toedienen; bij klachten arts ontbieden.

· **Na huidcontact:** Over het algemeen is het produkt niet prikkelend voor de huid

· **Na oogcontact:**

De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.

· **Na inslikken:** Als de klachten niet minderen, een arts raadplegen

· **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.

· **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**

Geen verdere relevante informatie verkrijgbaar.

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### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**  
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweerlieden**
- **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Niet nodig.
- **6.2 Milieuvorzorgsmaatregelen:** Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 Insluitings- en reinigingsmethoden en -materiaal:**  
Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.  
Besmet materiaal zoals afval volgens punt 13 verwijderen.  
Voor voldoende ventilatie zorgen.
- **6.4 Verwijzing naar andere rubrieken**  
Informatie inzake veilig gebruik - zie hoofdstuk 7.  
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.  
Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.  
Aërosolvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Geen bijzondere maatregelen noodzakelijk.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Tanks ondoordringbaar gesloten houden.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:** Vervalt.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
Verwijderd houden van eet- en drinkwaren.  
Verontreinigde kleding onmiddellijk uittrekken.  
Vóór de pauze en aan het einde van werktijd handen wassen.  
Aanraking met de ogen vermijden.  
Aanraking met de ogen en de huid vermijden.

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- **Ademhalingsbescherming:**

Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingsstoestel gebruiken.

- **Handbescherming:**



Veiligheidshandschoenen

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.

Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliën-mengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

- **Handschoenmateriaal**

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.

- **Doordringingstijd van het handschoenmateriaal**

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

- **Oogbescherming:**



Nauw aansluitende veiligheidsbril

### RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**

- **Algemene gegevens**

- **Voorkomen:**

|                           |                |
|---------------------------|----------------|
| <b>Vorm:</b>              | Vloeistof      |
| <b>Kleur:</b>             | Kleurloos      |
| <b>Reuk:</b>              | Karakteristiek |
| <b>Geurdrempelwaarde:</b> | Niet bepaald.  |

- **pH-waarde:** neutral

- **Toestandsverandering**

|                                 |        |
|---------------------------------|--------|
| <b>Smeltpunt/smeltbereik:</b>   | -68 °C |
| <b>Kookpunt/kookpuntbereik:</b> | 185 °C |

- **Vlampunt:** > 100 °C

- **Ontvlambaarheid (vast, gasvormig):** Niet bruikbaar.

- **Ontstekingstemperatuur:** 371 °C

- **Ontbindingstemperatuur:** Niet bepaald.

- **Zelfonsteking:** Niet bepaald.

- **Ontploffingsgevaar:** Het produkt is niet ontploffingsgevaarlijk.

- **Ontploffingsgrenzen:**

|                  |            |
|------------------|------------|
| <b>Onderste:</b> | 2,6 Vol %  |
| <b>Bovenste:</b> | 12,6 Vol % |

- **Dampspanning bij 20 °C:** 0,11 hPa

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|   |   |
|---|---|
| · <b>Dichtheid bij 20 °C:</b>                     | 1,0362 g/cm <sup>3</sup>                        |
| · <b>Relatieve dichtheid</b>                      | Niet bepaald.                                   |
| · <b>Dampdichtheid</b>                            | Niet bepaald.                                   |
| · <b>Verdampingssnelheid</b>                      | Niet bepaald.                                   |
| · <b>Oplosbaarheid in/mengbaarheid met Water:</b> | Niet resp. gering mengbaar.                     |
| · <b>Verdelingscoëfficiënt (n-octanol/water):</b> | Niet bepaald.                                   |
| · <b>Viscositeit</b>                              |   |
| <b>Dynamisch bij 25 °C:</b>                       | 46 mPas   |
| <b>Kinematisch:</b>                               | Niet bepaald.                                   |
| · <b>Oplosmiddelgehalte:</b>                      |   |
| <b>Organisch oplosmiddel:</b>                     | 99,5 %  |
| <b>VOC (EG)</b>                                   | 99,50 %   |
| · <b>9.2 Overige informatie</b>                   | Geen verdere relevante informatie verkrijgbaar. |

### RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit**
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit**

#### · Indelingsrelevantie LD/LC50-waarden:

##### 57-55-6 propaan-1,2-diol

|         |      |                      |
|---------|------|----------------------|
| Oraal   | LD50 | 2000 mg/kg (rat)     |
| Dermaal | LD50 | 20800 mg/kg (rabbit) |

- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Geen prikkelend effect.
- **Ernstig oogletsel/oogirritatie** Prikkeling
- **Sensibilisatie van de luchtwegen/de huid** Geen effect van overgevoeligheid bekend.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**  
Carc. 2

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.

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- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL) 10: Kan in het aquatisch milieu op lange termijn schadelijke effecten veroorzaken.  
Gevaar voor water klasse 1 (D) (Lijstclassificatie): gevaar voor water klein  
Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- |   |                     |
|---|---------------------|
| · <b>14.1 VN-nummer</b>   |                     |
| · <b>ADR, ADN, IMDG, IATA</b>   | Niet van toepassing |
| · <b>14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN</b>            |                     |
| · <b>ADR, ADN, IMDG, IATA</b>   | Niet van toepassing |
| · <b>14.3 Transportgevarenklasse(n)</b>   |                     |
| · <b>ADR, ADN, IMDG, IATA</b>   |                     |
| · <b>klasse</b>   | Niet van toepassing |
| · <b>14.4 Verpakkingsgroep:</b>   |                     |
| · <b>ADR, IMDG, IATA</b>  | Niet van toepassing |
| · <b>14.5 Milieugevaren:</b>  |                     |
| · <b>Marine pollutant:</b>  | Neen                |
| · <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>                                   | Niet bruikbaar.     |
| · <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij MARPOL 73/78 en de IBC-code</b> | Niet bruikbaar.     |
| · <b>VN "Model Regulation":</b>   | -                   |

### RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**

- **SZW-lijst van kankerverwekkende stoffen**

De stof is niet aanwezig.

- **SZW-lijst van mutagene stoffen**

De stof is niet aanwezig.

- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**

De stof is niet aanwezig.

(Vervolg op blz. 7)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 09.06.2015

Herziening van: 09.06.2015

**Handelsnaam: OIL RED O SOLUTION**

(Vervolg van blz. 6)

· **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**

De stof is niet aanwezig.

· **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**

De stof is niet aanwezig.

· **Richtlijn 2012/18/EU**

· **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.

· **Nationale voorschriften:**

· **Gevaarklasse v. water:** Waterbezwaarlijkheid (NL) 10: Saneringsinspanning A

· **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

## RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

· **Afkortingen en acroniemen:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Carc. 2: Carcinogenicity, Hazard Category 2

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 09.06.2015

Révision: 09.06.2015

### SECTION 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** OIL RED O SOLUTION
- **Code du produit:** 26504-01
- **No CAS:**  
57-55-6
- **Numéro CE:**  
200-338-0
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
*Pas d'autres informations importantes disponibles.*
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkck@aol.com  
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS08 danger pour la santé

Carc. 2 H351 Susceptible de provoquer le cancer.



GHS07

Acute Tox. 4 H302 Nocif en cas d'ingestion.

Skin Irrit. 2 H315 Provoque une irritation cutanée.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.
- **Pictogrammes de danger**



GHS07 GHS08

- **Mention d'avertissement** Attention
- **Composants dangereux déterminants pour l'étiquetage:**  
propane-1,2-diol

(suite page 2)



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

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**Nom du produit: OIL RED O SOLUTION**

(suite de la page 1)

- **Mentions de danger**
  - H302 Nocif en cas d'ingestion.
  - H315 Provoque une irritation cutanée.
  - H351 Susceptible de provoquer le cancer.
- **Conseils de prudence**
  - P280 Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.
  - P281 Utiliser l'équipement de protection individuel requis.
  - P321 Traitement spécifique (voir sur cette étiquette).
  - P362 Enlever les vêtements contaminés et les laver avant réutilisation.
  - P405 Garder sous clef.
  - P501 Éliminer le contenu/réceptacle conformément à la réglementation locale/régionale/nationale/internationale.
- **2.3 Autres dangers**
- **Résultats des évaluations PBT et vPvB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.

### SECTION 3: Composition/informations sur les composants

- **3.1 Caractérisation chimique: Substances**
- **No CAS Désignation**
  - 57-55-6 propane-1,2-diol
- **Code(s) d'identification**
- **Numéro CE:** 200-338-0

### SECTION 4: Premiers secours

- **4.1 Description des premiers secours**
- **Après inhalation:** Donner de l'air frais, consulter un médecin en cas de troubles.
- **Après contact avec la peau:** En règle générale, le produit n'irrite pas la peau.
- **Après contact avec les yeux:**
  - Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.
- **Après ingestion:** Si les troubles persistent, consulter un médecin.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**
  - Pas d'autres informations importantes disponibles.

### SECTION 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**
  - Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### SECTION 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**
  - Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.

(suite page 3)

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**Nom du produit: OIL RED O SOLUTION**

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- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).  
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.  
Assurer une aération suffisante.
- **6.4 Référence à d'autres sections**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.  
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### SECTION 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Veiller à une bonne ventilation/aspiration du poste de travail.  
Eviter la formation d'aérosols.
- **Préventions des incendies et des explosions:** Aucune mesure particulière n'est requise.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Tenir les emballages hermétiquement fermés.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### SECTION 8: Contrôles de l'exposition/protection individuelle

- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.
- **8.1 Paramètres de contrôle**
- **Composants présentant des valeurs-seuil à surveiller par poste de travail:** Néant
- **Remarques supplémentaires:**  
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- **8.2 Contrôles de l'exposition**
- **Equipement de protection individuel:**
- **Mesures générales de protection et d'hygiène:**  
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.  
Retirer immédiatement les vêtements souillés ou humectés.  
Se laver les mains avant les pauses et en fin de travail.  
Eviter tout contact avec les yeux.  
Eviter tout contact avec les yeux et avec la peau.
- **Protection respiratoire:**  
En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.
- **Protection des mains:**



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.  
À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

(suite page 4)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

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**Nom du produit: OIL RED O SOLUTION**

(suite de la page 3)

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· **Matériau des gants**

Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.

· **Temps de pénétration du matériau des gants**

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

· **Protection des yeux:**



Lunettes de protection hermétiques

### SECTION 9: Propriétés physiques et chimiques

· **9.1 Informations sur les propriétés physiques et chimiques essentielles**

· **Indications générales**

· **Aspect:**

|                        |                 |
|------------------------|-----------------|
| <b>Forme:</b>          | Liquide         |
| <b>Couleur:</b>        | Incolore        |
| <b>Odeur:</b>          | Caractéristique |
| <b>Seuil olfactif:</b> | Non déterminé.  |

· **valeur du pH:** neutral

· **Changement d'état**

|                            |        |
|----------------------------|--------|
| <b>Point de fusion:</b>    | -68 °C |
| <b>Point d'ébullition:</b> | 185 °C |

· **Point d'éclair** > 100 °C

· **Inflammabilité (solide, gazeux):** Non applicable.

· **Température d'inflammation:** 371 °C

· **Température de décomposition:** Non déterminé.

· **Auto-inflammation:** Non déterminé.

· **Danger d'explosion:** Le produit n'est pas explosif.

· **Limites d'explosion:**

|                    |            |
|--------------------|------------|
| <b>Inférieure:</b> | 2,6 Vol %  |
| <b>Supérieure:</b> | 12,6 Vol % |

· **Pression de vapeur à 20 °C:** 0,11 hPa

|                              |                          |
|------------------------------|--------------------------|
| <b>Densité à 20 °C:</b>      | 1,0362 g/cm <sup>3</sup> |
| <b>Densité relative</b>      | Non déterminé.           |
| <b>Densité de vapeur.</b>    | Non déterminé.           |
| <b>Vitesse d'évaporation</b> | Non déterminé.           |

· **Solubilité dans/miscibilité avec l'eau:**

Pas ou peu miscible

· **Coefficient de partage (n-octanol/eau):** Non déterminé.

· **Viscosité:**

**Dynamique à 25 °C:** 46 mPas

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## selon 1907/2006/CE, Article 31

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**Nom du produit: OIL RED O SOLUTION**

(suite de la page 4)

|                                  |  |
|----------------------------------|--|
| <b>Cinématique:</b>              | Non déterminé.                                     |
| <b>· Teneur en solvants:</b>     |  |
| <b>Solvants organiques:</b>      | 99,5 %   |
| <b>VOC (CE)</b>                  | 99,50 %  |
| <b>· 9.2 Autres informations</b> | Pas d'autres informations importantes disponibles. |

### SECTION 10: Stabilité et réactivité

- **10.1 Réactivité**
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### SECTION 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë**
- **Valeurs LD/LC50 déterminantes pour la classification:**

#### 57-55-6 propane-1,2-diol

|          |      |                     |
|----------|------|---------------------|
| Oral     | LD50 | 2000 mg/kg (rat)    |
| Dermique | LD50 | 20800 mg/kg (lapin) |

- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée** Pas d'effet d'irritation.
- **Lésions oculaires graves/irritation oculaire** Effet d'irritation.
- **Sensibilisation respiratoire ou cutanée** Aucun effet de sensibilisation connu.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**  
Carc. 2

### SECTION 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 1 (D) (classification selon liste): peu polluant  
Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.

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## selon 1907/2006/CE, Article 31

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**Nom du produit: OIL RED O SOLUTION**

(suite de la page 5)

- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### SECTION 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

### SECTION 14: Informations relatives au transport

- |  |                 |
|--|-----------------|
| · <b>14.1 No ONU</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | néant           |
| · <b>14.2 Nom d'expédition des Nations unies</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | néant           |
| · <b>14.3 Classe(s) de danger pour le transport</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Classe</b>  | néant           |
| · <b>14.4 Groupe d'emballage</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | néant           |
| · <b>14.5 Dangers pour l'environnement:</b>  |                 |
| · <b>Marine Pollutant:</b>   | Non             |
| · <b>14.6 Précautions particulières à prendre par l'utilisateur</b>  | Non applicable. |
| · <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol 73/78 et au recueil IBC</b> | Non applicable. |
| · <b>"Règlement type" de l'ONU:</b>  | -               |

### SECTION 15: Informations réglementaires

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### SECTION 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Acronymes et abréviations:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

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**Fiche de données de sécurité**  
**selon 1907/2006/CE, Article 31**

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Carc. 2: Carcinogenicity, Hazard Category 2*

FR

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 09.06.2015

überarbeitet am: 09.06.2015

### ABSCHNITT 1: Bezeichnung des Stoffs bzw. des Gemischs und des Unternehmens

- **1.1 Produktidentifikator**
- **Handelsname:** OIL RED O SOLUTION
- **Artikelnummer:** 26504-01
- **CAS-Nummer:**  
57-55-6
- **EG-Nummer:**  
200-338-0
- **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**  
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffes / des Gemisches** Laborchemikalien
- **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- Science Services GmbH  
Unterhachinger Str. 75  
81737 München Germany  
Tel: +49(0)89 18 93 668-0  
safety@scienceservices.de
- 24h Giftnotruf Munchen: +49 (0)89 19240  
Toxikologische Abteilung der II. Medizinischen Klinik  
rechts der Isar, Munchen. - www.toxinfo.org
- **Auskunftgebender Bereich:** Product safety department
- **1.4 Notrufnummer:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

- **2.1 Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS08 Gesundheitsgefahr

Carc. 2      H351 Kann vermutlich Krebs erzeugen.



GHS07

Acute Tox. 4 H302 Gesundheitsschädlich bei Verschlucken.  
Skin Irrit. 2 H315 Verursacht Hautreizungen.

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**  
Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 09.06.2015

überarbeitet am: 09.06.2015

**Handelsname: OIL RED O SOLUTION**

(Fortsetzung von Seite 1)

**· Gefahrenpiktogramme**


GHS07 GHS08

**· Signalwort Achtung**
**· Gefahrbestimmende Komponenten zur Etikettierung:**

1,2-propylen-glycol

**· Gefahrenhinweise**

H302 Gesundheitsschädlich bei Verschlucken.

H315 Verursacht Hautreizungen.

H351 Kann vermutlich Krebs erzeugen.

**· Sicherheitshinweise**

P280 Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.

P281 Vorgeschriebene persönliche Schutzausrüstung verwenden.

P321 Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).

P362 Kontaminierte Kleidung ausziehen und vor erneutem Tragen waschen.

P405 Unter Verschluss aufbewahren.

P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen/ internationalen Vorschriften.

**· 2.3 Sonstige Gefahren**
**· Ergebnisse der PBT- und vPvB-Beurteilung**
**· PBT:** Nicht anwendbar.

**· vPvB:** Nicht anwendbar.

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

**· 3.1 Chemische Charakterisierung: Stoffe**
**· CAS-Nr. Bezeichnung**

57-55-6 1,2-propylen-glycol

**· Identifikationsnummer(n)**
**· EG-Nummer:** 200-338-0

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

**· 4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
**· Nach Einatmen:** Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.

**· Nach Hautkontakt:** Im allgemeinen ist das Produkt nicht hautreizend.

**· Nach Augenkontakt:**

Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.

**· Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.

**· 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**

Keine weiteren relevanten Informationen verfügbar.

**· 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**

Keine weiteren relevanten Informationen verfügbar.

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### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.  
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.  
Für ausreichende Lüftung sorgen.
- **6.4 Verweis auf andere Abschnitte**  
Informationen zur sicheren Handhabung siehe Abschnitt 7.  
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.  
Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**  
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.  
Aerosolbildung vermeiden.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Behälter dicht geschlossen halten.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.
- **8.1 Zu überwachende Parameter**

|  |
|--|
| · <b>Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:</b> |
|--|

|                             |
|-----------------------------|
| 57-55-6 1,2-propylen-glycol |
|-----------------------------|

|   |
|---|
| MAK als Dampf und Aerosol; vgl. Abschn. IIb |
|---|

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

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- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**  
*Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.  
 Beschmutzte, getränkte Kleidung sofort ausziehen.  
 Vor den Pausen und bei Arbeitsende Hände waschen.  
 Berührung mit den Augen vermeiden.  
 Berührung mit den Augen und der Haut vermeiden.*
- **Atemschutz:**  
*Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition unluftunabhängiges Atemschutzgerät verwenden.*
- **Handschutz:**



Schutzhandschuhe

*Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.*

*Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.*

- **Handschuhmaterial**  
*Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.*
- **Durchdringungszeit des Handschuhmaterials**  
*Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.*
- **Augenschutz:**



Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

#### · 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

##### · Allgemeine Angaben

##### · Aussehen:

**Form:** Flüssigkeit

**Farbe:** Farblos

· **Geruch:** Charakteristisch

· **Geruchsschwelle:** Nicht bestimmt.

· **pH-Wert:** neutral

##### · Zustandsänderung

**Schmelzpunkt/Schmelzbereich:** -68 °C

**Siedepunkt/Siedebereich:** 185 °C

· **Flammpunkt:** > 100 °C

· **Entzündlichkeit (fest, gasförmig):** Nicht anwendbar.

· **Zündtemperatur:** 371 °C

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|   |  |
|---|--|
| · <b>Zersetzungstemperatur:</b>                     | Nicht bestimmt.                                    |
| · <b>Selbstentzündlichkeit:</b>                     | Nicht bestimmt.                                    |
| · <b>Explosionsgefahr:</b>                          | Das Produkt ist nicht explosionsgefährlich.        |
| · <b>Explosionsgrenzen:</b>                         |  |
| <b>Untere:</b>                                      | 2,6 Vol %  |
| <b>Obere:</b>                                       | 12,6 Vol %   |
| · <b>Dampfdruck bei 20 °C:</b>                      | 0,11 hPa   |
| · <b>Dichte bei 20 °C:</b>                          | 1,0362 g/cm <sup>3</sup>                           |
| · <b>Relative Dichte</b>                            | Nicht bestimmt.                                    |
| · <b>Dampfdichte</b>                                | Nicht bestimmt.                                    |
| · <b>Verdampfungsgeschwindigkeit</b>                | Nicht bestimmt.                                    |
| · <b>Löslichkeit in / Mischbarkeit mit Wasser:</b>  | Nicht bzw. wenig mischbar.                         |
| · <b>Verteilungskoeffizient (n-Octanol/Wasser):</b> | Nicht bestimmt.                                    |
| · <b>Viskosität:</b>                                |  |
| <b>Dynamisch bei 25 °C:</b>                         | 46 mPas  |
| <b>Kinematisch:</b>                                 | Nicht bestimmt.                                    |
| · <b>Lösemittelgehalt:</b>                          |  |
| <b>Organische Lösemittel:</b>                       | 99,5 %   |
| <b>VOC (EU)</b>                                     | 99,50 %  |
| · <b>9.2 Sonstige Angaben</b>                       | Keine weiteren relevanten Informationen verfügbar. |

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität**
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität**

|  |      |                      |
|--|------|----------------------|
| · <b>Einstufungsrelevante LD/LC50-Werte:</b> |      |                      |
| 57-55-6 1,2-propylen-glycol                  |      |                      |
| Oral   | LD50 | 2000 mg/kg (rat)     |
| Dermal                                       | LD50 | 20800 mg/kg (rabbit) |

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Keine Reizwirkung.
- **Schwere Augenschädigung/-reizung** Reizwirkung.
- **Sensibilisierung der Atemwege/Haut** Keine sensibilisierende Wirkung bekannt.

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- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Carc. 2**

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 1 (Listeneinstufung): schwach wassergefährdend  
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

### ABSCHNITT 14: Angaben zum Transport

- |  |                  |
|--|------------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>   | entfällt         |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>              | entfällt         |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Klasse</b></li> </ul> | entfällt         |
| <ul style="list-style-type: none"> <li>· <b>14.4 Verpackungsgruppe</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                      | entfällt         |
| <ul style="list-style-type: none"> <li>· <b>14.5 Umweltgefahren:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>                                      | Nein             |
| <ul style="list-style-type: none"> <li>· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b></li> </ul>   | Nicht anwendbar. |
| <ul style="list-style-type: none"> <li>· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens 73/78 und gemäß IBC-Code</b></li> </ul>  | Nicht anwendbar. |

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· UN "Model Regulation": -

### ABSCHNITT 15: Rechtsvorschriften

· **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**

· Richtlinie 2012/18/EU

· Namentlich aufgeführte gefährliche Stoffe - ANHANG I Der Stoff ist nicht enthalten.

· Nationale Vorschriften:

· Technische Anleitung Luft:

| Klasse | Anteil in % |
|--------|-------------|
| NK     | 99,5        |

· Wassergefährdungsklasse: WGK 1 (Listeneinstufung): schwach wassergefährdend.

· 15.2 **Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· **Abkürzungen und Akronyme:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Carc. 2: Carcinogenicity, Hazard Category 2

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

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Revisione: 09.06.2015

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** OIL RED O SOLUTION

· **Articolo numero:** 26504-01

· **Numero CAS:**

57-55-6

· **Numeri CE:**

200-338-0

· **1.2 Usi pertinenti identificati della sostanza o miscela e usi sconsigliati** Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS08 pericolo per la salute

Carc. 2 H351 Sospettato di provocare il cancro.



GHS07

Acute Tox. 4 H302 Nocivo se ingerito.

Skin Irrit. 2 H315 Provoca irritazione cutanea.

· **2.2 Elementi dell'etichetta**

· **Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

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· **Pittogrammi di pericolo**



GHS07 GHS08

· **Avvertenza** *Attenzione*

· **Componenti pericolosi che ne determinano l'etichettatura:**

*propan-1,2-diolo*

· **Indicazioni di pericolo**

*H302 Nocivo se ingerito.*

*H315 Provoca irritazione cutanea.*

*H351 Sospettato di provocare il cancro.*

· **Consigli di prudenza**

*P280 Indossare guanti/indumenti protettivi/Proteggere gli occhi/il viso.*

*P281 Utilizzare il dispositivo di protezione individuale richiesto.*

*P321 Trattamento specifico (vedere su questa etichetta).*

*P362 Togliere di dosso gli indumenti contaminati e lavarli prima di indossarli nuovamente.*

*P405 Conservare sotto chiave.*

*P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.*

· **2.3 Altri pericoli**

· **Risultati della valutazione PBT e vPvB**

· **PBT:** Non applicabile.

· **vPvB:** Non applicabile.

### SEZIONE 3: Composizione/informazioni sugli ingredienti

· **3.1 Caratteristiche chimiche: Sostanze**

· **Numero CAS**

*57-55-6 propan-1,2-diolo*

· **Numeroli di identificazione**

· **Numeri CE:** 200-338-0

### SEZIONE 4: Misure di primo soccorso

· **4.1 Descrizione delle misure di primo soccorso**

· **Inalazione:** Portare in zona ben areata, in caso di disturbi consultare il medico.

· **Contatto con la pelle:** Generalmente il prodotto non è irritante per la pelle.

· **Contatto con gli occhi:**

*Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte Se persiste il dolore consultare il medico.*

· **Ingestione:** Se il dolore persiste consultare il medico.

· **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.

· **4.3 Indicazione della eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**

*Non sono disponibili altre informazioni.*

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**SEZIONE 5: Misure antincendio**

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.
- **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**
- **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

**SEZIONE 6: Misure in caso di rilascio accidentale**

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.
- **6.2 Precauzioni ambientali:** Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**  
Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).  
Smaltimento del materiale contaminato conformemente al punto 13.  
Provvedere ad una sufficiente areazione.
- **6.4 Riferimento ad altre sezioni**  
Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.  
Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.  
Per informazioni relative allo smaltimento vedere Capitolo 13.

**SEZIONE 7: Manipolazione e immagazzinamento**

- **7.1 Precauzioni per la manipolazione sicura**  
Accurata ventilazione/aspirazione nei luoghi di lavoro.  
Evitare la formazione di aerosol.
- **Indicazioni in caso di incendio ed esplosione:** Non sono richiesti provvedimenti particolari.
- **7.2 Condizioni per l'immagazzinamento sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** Mantenere i recipienti ermeticamente chiusi.
- **7.3 Usi finali specifici** Non sono disponibili altre informazioni.

**SEZIONE 8: Controllo dell'esposizione/protezione individuale**

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:** Non Necessario.
- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.
- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**  
Tenere lontano da cibo, bevande e foraggi.  
Togliere immediatamente gli abiti contaminati.  
Lavarsi le mani prima dell'intervallo o a lavoro terminato.  
Evitare il contatto con gli occhi.  
Evitare il contatto con gli occhi e la pelle.

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· **Maschera protettiva:**

Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.

· **Guanti protettivi:**

Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.

A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.

Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

· **Materiale dei guanti**

La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.

· **Tempo di permeazione del materiale dei guanti**

Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

· **Occhiali protettivi:**

Occhiali protettivi a tenuta

### SEZIONE 9: Proprietà fisiche e chimiche

· **9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**· **Indicazioni generali**· **Aspetto:**

|                            |                |
|----------------------------|----------------|
| · <b>Forma:</b>            | Liquido        |
| · <b>Colore:</b>           | Incolore       |
| · <b>Odore:</b>            | Caratteristico |
| · <b>Soglia olfattiva:</b> | Non definito.  |

· **valori di pH:** neutral

· **Cambiamento di stato**

· **Temperatura di fusione/ambito di fusione:** -68 °C

· **Temperatura di ebollizione/ambito di ebollizione:** 185 °C

· **Punto di infiammabilità:** > 100 °C

· **Infiammabilità (solido, gassoso):** Non applicabile.

· **Temperatura di accensione:** 371 °C

· **Temperatura di decomposizione:** Non definito.

· **Autoaccensione:** Non definito.

· **Pericolo di esplosione:** Prodotto non esplosivo.

· **Limiti di infiammabilità:**

|                     |            |
|---------------------|------------|
| · <b>Inferiore:</b> | 2,6 Vol %  |
| · <b>Superiore:</b> | 12,6 Vol % |

(continua a pagina 5)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 09.06.2015

Revisione: 09.06.2015

**Denominazione commerciale: OIL RED O SOLUTION**

(Segue da pagina 4)

|   |  |
|---|--|
| · <b>Tensione di vapore a 20 °C:</b>                      | 0,11 hPa                                 |
| · <b>Densità a 20 °C:</b>                                 | 1,0362 g/cm <sup>3</sup>                 |
| · <b>Densità relativa</b>                                 | Non definito.                            |
| · <b>Densità del vapore</b>                               | Non definito.                            |
| · <b>Velocità di evaporazione</b>                         | Non definito.                            |
| · <b>Solubilità in/Miscibilità con acqua:</b>             | Poco e/o non miscibile.                  |
| · <b>Coefficiente di distribuzione (n-Octanol/acqua):</b> | Non definito.                            |
| · <b>Viscosità:</b>                                       |  |
| <b>Dinamica a 25 °C:</b>                                  | 46 mPas                                  |
| <b>Cinematica:</b>  | Non definito.                            |
| · <b>Tenore del solvente:</b>                             |  |
| <b>Solventi organici:</b>                                 | 99,5 %                                   |
| <b>VOC (CE)</b>   | 99,50 %                                  |
| · <b>9.2 Altre informazioni</b>                           | Non sono disponibili altre informazioni. |

**SEZIONE 10: Stabilità e reattività**

- **10.1 Reattività**
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

**SEZIONE 11: Informazioni tossicologiche**

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta**

- **Valori LD/LC50 rilevanti per la classificazione:**

**57-55-6 propan-1,2-diolo**

|         |      |                      |
|---------|------|----------------------|
| Orale   | LD50 | 2000 mg/kg (rat)     |
| Cutaneo | LD50 | 20800 mg/kg (rabbit) |

- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Non ha effetti irritanti.
- **Lesioni oculari gravi/irritazioni oculari gravi** Irritante.
- **Sensibilizzazione respiratoria o cutanea** Non si conoscono effetti sensibilizzanti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**  
Carc. 2

**SEZIONE 12: Informazioni ecologiche**

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.

(continua a pagina 6)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 09.06.2015

Revisione: 09.06.2015

**Denominazione commerciale: OIL RED O SOLUTION**

(Segue da pagina 5)

- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 1 (D) (Classif. secondo le liste): poco pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature non diluito o in grandi quantità.
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

### SEZIONE 14: Informazioni sul trasporto

- |   |                  |
|---|------------------|
| · <b>14.1 Numero ONU</b>  |                  |
| · <b>ADR, ADN, IMDG, IATA</b>   | non applicabile  |
| · <b>14.2 Nome di spedizione dell'ONU</b>   |                  |
| · <b>ADR, ADN, IMDG, IATA</b>   | non applicabile  |
| · <b>14.3 Classi di pericolo connesso al trasporto</b>                                    |                  |
| · <b>ADR, ADN, IMDG, IATA</b>   |                  |
| · <b>Classe</b>   | non applicabile  |
| · <b>14.4 Gruppo di imballaggio</b>   |                  |
| · <b>ADR, IMDG, IATA</b>  | non applicabile  |
| · <b>14.5 Pericoli per l'ambiente:</b>  |                  |
| · <b>Marine pollutant:</b>  | No               |
| · <b>14.6 Precauzioni speciali per gli utilizzatori</b>                                   | Non applicabile. |
| · <b>14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL 73/78 ed il codice IBC</b> | Non applicabile. |
| · <b>UN "Model Regulation":</b>   | -                |

### SEZIONE 15: Informazioni sulla regolamentazione

- **15.1 Norme e legislazione su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta

(continua a pagina 7)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 09.06.2015

Revisione: 09.06.2015

**Denominazione commerciale: OIL RED O SOLUTION**

(Segue da pagina 6)

· **Disposizioni nazionali:**

· **Istruzione tecnica aria:**

| Classe | quota in % |
|--------|------------|
| NC     | 99,5       |

· **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

### SEZIONE 16: Altre informazioni

*I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.*

· **Abbreviazioni e acronimi:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Carc. 2: Carcinogenicity, Hazard Category 2*

IT

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

### 1 화학제품과 회사에 관한 정보

- 제품 식별자
- 제품명: OIL RED O SOLUTION
- 상품번호: 26504-01
- CAS-번호  
57-55-6
- EC 의번호:  
200-338-0
- 해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도 추가적인 정보가 존재하지 않습니다.
- 제품의 권고 용도와 사용상의 제한: 실험실 화학품
- 안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보
- 제조자/수입자/유통업자 정보:  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- Samchang Commercial Co., Ltd.  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298
- 추가적인 정보 획득 가능: Product safety department
- 비상연락 전화번호:  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 유해성.위험성

- 순물질 또는 혼합물의 분류



건강에 위험

발암성 구분2

H351 암을 일으킬 것으로 의심됨



심한 눈 손상/자극성 구분2 H319 눈에 심한 자극을 일으킴

- 라벨표기 요소
- GHS 라벨 요소
- 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- 그림문자



GHS07    GHS08

(2 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

(1 쪽부터계속)

- **신호어 경고**
- **상표상에명확히위험성이표시된성분:**  
propane-1,2-diol
- **유해.위험 문구**  
눈에 심한 자극을 일으킴  
암을 일으킬 것으로 의심됨
- **예방조치 문구**  
(보호장갑·보호의·보안경·안면보호구)를(을) 착용하십시오.  
눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거하십시오. 계속 씻으시오.  
노출되거나 노출이 우려되면 의학적인 조치·조언을 구하십시오.  
눈에 자극이 지속되면 의학적인 조치·조언을 구하십시오.  
잠금장치가 있는 저장장소에 저장하십시오.  
현지/지역/국가/국제 규정에 따라서 내용물/용기 노출
- **기타 유해성**
- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

- **화 학 적 특 성:** 화학물질
- **CAS-번호표시**  
57-55-6 propane-1,2-diol
- **식별 번호**
- **EC 의번호:** 200-338-0

### 4 응급조치 요령

- **응급조치요령 내용**
- **흡입했을 때:** 신선한 공기를 쉼, 통증이 있을 때는 의료진의 도움을 구한다.
- **피부에 접촉했을 때:** 일반적으로 이제품은 피부에 자극적이지 않다.
- **눈에 들어갔을 때:** 흐르는 물에 눈을 몇분동안 씻어내고나서, 증상이 지속될 경우에는 의사와 상담한다
- **먹었을 때:** 증상이 지속될 경우에는 의사와 상담한다.
- **기타 의사의 주의사항:**
- **가장 중요한 급·만성 증상 및 영향** 추가적인 정보가 존재하지 않습니다.
- **즉각적인 의료처치 및 특별치료가 필요함을 시사하는 징후** 추가적인 정보가 존재하지 않습니다.

### 5 폭발.화재시 대처방법

- **소화제**
- **적절한 소화제:** 주변 환경에 맞는 화재 진화방법을 사용한다.
- **본 화학물질이나 혼합물에서 발생하는 특별 유해성** 추가적인 정보가 존재하지 않습니다.
- **소방관에 대한 권고사항**
- **화재 진압 시 착용할 보호구 및 예방조치:** 특별한 조치가 필요없음.

### 6 누출 사고 시 대처방법

- **개인적 예방조치, 보호장비 및 응급처치 절차** 필요없음.
- **환경 관련 예방조치:** 하수도망/해수면위의물/지하수로도달하지않게한다.

(3 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

(2 쪽부터계속)

- **밀폐 및 정화 방법과 소재:**  
액체가 혼합된 물질(모래, 규조토, 산성 결합물, 일반 결합물, 톱밥)에 흡입되도록 한다.  
항목 13에 따라 오염된 물질을 쓰레기로 처분한다.  
충분한 환기가 되도록 한다.
- **타 섹션 참조**  
안전 관리에 대한 정보는 제7 장을 참고하십시오.  
개인 보호 장비에 대한 정보는 제8 장을 참고하십시오.  
쓰레기 처리에 대한 정보는 제13 장을 참고하십시오.

### 7 취급 및 저장방법

- **취급:**
- **안전 취급을 위한 예방조치**  
작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.  
연무질이 형성되는 것을 피한다.
- **화재 및 폭발 사고 예방대책에 관한 정보:** 특별한 조치가 필요없음.
- **혼합위험성 등 안전 저장 조건**
- **보관:**
- **안전한 저장 방법:** 특별한 요구사항이 없음.
- **하나의 공동 보관 시설에 대한 보관 관련 정보:** 필요없음
- **보관 조건에 관한 추가적인 정보:** 용기를 새지 않게 밀폐한 채 보관한다.
- **구체적 최종 사용자** 추가적인 정보가 존재하지 않습니다.

### 8 노출방지 및 개인보호구

- **첨단시설 디자인에 대한 추가정보:** 더 이상 의 자료는 없음. 항목 7을 참고하십시오.

· **통제 변수**

· **화학물질의 노출기준, 생물학적 노출기준 등:**

57-55-6 propane-1,2-diol

WEEL (USA) 장기간의 값: 10 mg/m<sup>3</sup>

- **추가 정보:** 제조할 당시에 유효한 목록을 기초로 사용했다.

· **노출 통제**

· **개인 보호구**

· **일반적보호조치및위생조치:**

· 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.

· 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.

· 휴식 전이나 작업이 끝날때마다 손을 씻는다.

· 눈과의 접촉을 피한다.

· 눈과 피부와의 접촉은 피한다.

· **호흡기 보호:**

· 단시간 또는 경미한 오염의 경우에는 호흡여과기를 사용한다. 심각한 또는 장기간 노출시에는

· 호흡보호장비를 사용한다.

· **손 보호:**



보호용 장갑

장갑재질은 제품 / 원료 / 조제를 투과시키지 않아야 하고, 내구성이 있어야 한다.

테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.

(4 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

(3 쪽부터계속)

투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

- **장갑의재료**  
적합한장갑의선택은재질차이뿐만아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선택되어야한다.
- **장갑재료의투과시간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.
- **눈 보호:**



꼭조이는보안경

### 9 물리화학적 특성

· **기본 물리 및 화학적 특성에 대한 정보**

· **일반정보**

· **외형**

- 물리적 상태: 액체
- 색: 색소가없는
- 냄새: 특색있는
- 후각역치: 알맞지않다.

· pH: neutral

· **상태변화**

- 녹는점/어는점: -68 °C
- 초기 끓는점과 끓는점 범위: 185 °C

· 인화점: > 100 °C

· 인화성(고체, 기체): 해당사항 없음.

· 점화온도: 371 °C

· 분해 온도: 알맞지않다.

· 자기점화: 알맞지않다.

· 폭발위험: 이제품은폭발위험성이없다

· **인화 또는 폭발 범위의 상한/하한**

- 아래로: 2.6 Vol %
- 위로: 12.6 Vol %

· 증기압 의경우 20 °C: 0.11 hPa

· 밀도 의경우 20 °C: 1.0362 g/cm<sup>3</sup>

· 비중: 알맞지않다.

· 증기밀도: 알맞지않다.

· 증발 속도: 알맞지않다.

· **용해도:**

· 물: 각각의경우에따라서는거의혼합할수없는

· n 옥탄올/물 분배계수: 알맞지않다.

· **점도:**

- 역학성 의경우 25 °C: 46 mPas
- 동점성: 알맞지않다.

(5 쪽에계속)



# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

(4 쪽부터계속)

- **용매내용물**
- **유기용매:** 99.5 %
- **VOC (EU)** 99.50 %
- **기타 정보** 추가적인 정보가 존재하지 않습니다.

### 10 안정성 및 반응성

- **반응성**
- **화학적 안정성**
- **화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건:** 규정에따라사용할경우해체는없다
- **유해반응 가능성** 위험한 반응으로는 알려지지 않았다.
- **피해야 할 조건** 추가적인 정보가 존재하지 않습니다.
- **혼합 금지 물질:** 추가적인 정보가 존재하지 않습니다.
- **유해분해물질:** 위험성있는 분해물들은 알려지지 않았다.

### 11 독성에 관한 정보

- **독성학적 영향에 대한 정보**
  - **급성 독성:**
  - **LD/LC50-수치에 따른 분류:**
- |                          |      |                      |
|--------------------------|------|----------------------|
| 57-55-6 propane-1,2-diol |      |                      |
| 구강의                      | LD50 | 2000 mg/kg (rat)     |
| 피부의                      | LD50 | 20800 mg/kg (rabbit) |
- **일차적 자극 효과:**
  - **피부 부식성 또는 자극성:** 무자극
  - **심한 눈 손상 또는 자극성:** 자극
  - **감각화:** 민감한 영향이 없는 것으로 알려져 있다.
  - **다음 종류의 잠재적인 효과에 대한 정보**
  - **CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)**
  - 발암성 구분2

### 12 환경에 미치는 영향

- **독성**
- **수생독성:** 추가적인 정보가 존재하지 않습니다.
- **지속성 및 분해성** 추가적인 정보가 존재하지 않습니다.
- **환경 시스템에서의 행동:**
- **생물농축 잠재성** 추가적인 정보가 존재하지 않습니다.
- **토양내 이동성** 추가적인 정보가 존재하지 않습니다.
- **추가적인 생태학 정보:**
- **일반 특징:**
- 수질오염등급 1 (목록분류): 약하게수질오염이된
- 회색시키지않은채대량으로지하수나, 하천으로그리고하수도망에도달하지않게한다.
- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.

(6 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

· 기타 부작용 추가적인 정보가 존재하지 않습니다.

(5 쪽부터계속)

### 13 폐기시 주의사항

- 폐기물 처리 방법
- 권고: 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- 비위생적 포장:
- 권고: 당국의지침에입각한쓰레기처리.

### 14 운송에 필요한 정보

|   |          |
|---|----------|
| · 유엔 번호<br>· ADR, ADN, IMDG, IATA   | 누락되다     |
| · UN 적정 선적명<br>· ADR, ADN, IMDG, IATA                                     | 누락되다     |
| · 교통 위험 클래스<br>· ADR, ADN, IMDG, IATA<br>· 등급                             | 누락되다     |
| · 용기등급<br>· ADR, IMDG, IATA   | 누락되다     |
| · 환경적 유해물질:<br>· 해양오염물질:  | 아니오      |
| · 이용자 특별 예방조치   | 해당사항 없음. |
| · MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송 | 해당사항 없음. |
| · UN "모범 규제":   | -        |

### 15 법적 규제현황

· 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률

|                                      |   |          |
|--------------------------------------|---|----------|
| · Korean Existing Chemical Inventory |   |          |
| 57-55-6                              | propane-1,2-diol  | KE-29267 |
| 1320-06-5                            | 1-[[4-[(dimethylphenyl)azo]dimethylphenyl]azo]-2-naphthol | KE-08593 |

- GHS 라벨 요소  
본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- 위험 도표



GHS07    GHS08

· 표지어 경고

(7 쪽에계속)

# 안전지침서

## 제31조의 1907/2006/EC에 따라

기압점: 2015.06.09

개정: 2015.06.09

**제품명: OIL RED O SOLUTION**

(6 쪽부터계속)

- **상표상에명확히위험성이표시된성분:**

propane-1,2-diol

- **위험 문구**

눈에 심한 자극을 일으킴

암을 일으킬 것으로 의심됨

- **주의 문구**

(보호장갑·보호의·보안경·안면보호구)를(을) 착용 하시오.

눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거 하시오. 계속 씻으시오.

노출되거나 노출이 우려되면 의학적인 조치·조언을 구 하시오.

눈에 자극이 지속되면 의학적인 조치·조언을 구 하시오.

잠금장치가 있는 저장장소에 저장 하시오.

현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

- **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

### 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

- **최초 작성일자:** 2015.06.09

- **개정 횟수 및 최종 개정일자:** 1 / 2015.06.09

- **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

심한 눈 손상/자극성 구분2: Serious eye damage/eye irritation, Hazard Category 2

발암성 구분2: Carcinogenicity, Hazard Category 2

# Risalah Data Keselamatan Bahan

## Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

### 1 Pengenalpastian bahan/sediaan dan syarikat

- **Pengenalan pasti produk**
- **Nama dagang:** OIL RED O SOLUTION
- **Nombor artikel:** 26504-01
- **Nombor CAS:**  
57-55-6
- **Nombor EC:**  
200-338-0
- **Kegunaan berkaitan yang dikenal pasti bagi bahan atau campuran dan penggunaan**  
Tiada maklumat lanjut yang diperolehi.
- **Penggunaan bahan/sediaan** Bahan kimia makmal
- **Perincian pembekal risalah data keselamatan**
- **Pengilang/Pembekal:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Maklumat lanjut dapat diperolehi daripada:** Product safety department
- **Nombor telefon kecemasan:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Pengenalpastian bahaya

- **Pengelasan bahan atau campuran**



Bahaya kesihatan

Kars. 2      H351 Disyaki menyebabkan kanser.



Kreng. Mata 2 H319 Menyebabkan kerengsaan mata yang serius.

- **Melabelkan unsur**
- **Unsur label GHS** Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).
- **Piktogram hazard**



GHS07      GHS08

- **Perkataan isyarat Amaran**
- **Komponen pelabelan yang menentukan bahaya:**  
propane-1,2-diol
- **Pernyataan hazard**  
Menyebabkan kerengsaan mata yang serius.  
Disyaki menyebabkan kanser.

(Bersambung ke halaman 2)

# Risalah Data Keselamatan Bahan

## Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 1)

· **Pernyataan langkah perlindungan**

*Pakai sarung tangan pelindung/pakaian pelindung/perindungan mata/perindungan muka.*

*JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.*

*JIKA terdedah atau terkena bahan: Dapatkan nasihat/rawatan perubatan.*

*Jika kerengsaan mata berterusan: Dapatkan nasihat/rawatan perubatan.*

*Simpan di tempat berkunci.*

*Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.*

· **Bahaya lain**

· **Keputusan penilaian PBT dan vPvB**

· **PBT:** Tidak berkenaan

· **vPvB:** Tidak berkenaan

### 3 Komposisi/maklumat ramuan

· **Ciri kimia: Bahan**

· **Keterangan No. CAS**

*57-55-6 propane-1,2-diol*

· **Nombor pengenalanpastian**

· **Nombor EC:** 200-338-0

### 4 Langkah pertolongan cemas

· **Keterangan langkah pertolongan cemas**

· **Jika tersedut:** Berikan udara bersih, hubungi doktor jika terdapat aduan.

· **Jika terkena kulit:** Biasanya produk tidak merengsakan kulit.

· **Jika terkena mata:**

*Bilas mata sambil membukanya di bawah air yang mengalir selama beberapa minit. Jika gejala berterusan, hubungi doktor.*

· **Jika tertelan:** Jika gejala berterusan, hubungi doktor.

· **Maklumat untuk doktor:**

· **Gejala dan kesan paling penting, akut dan lewat** Tiadak maklumat lanjut yang diperoleh.

· **Arahan bagi apa-apa rawatan perubatan dan rawatan khas yang diperlukan**

*Tiadak maklumat lanjut yang diperoleh.*

### 5 Langkah memadam kebakaran

· **Bahan pemadam api**

· **Agan pemadam yang sesuai:** Gunakan kaedah pemadaman kebakaran yang sesuai dengan keadaan sekeliling.

· **Bahaya khusus yang timbul daripada bahan atau campuran** Tiadak maklumat lanjut yang diperoleh.

· **Panduan kepada pemadam kebakaran**

· **Kelengkapan perlindungan:** Tiada langkah khusus diperlukan.

### 6 Langkah menangani pelepasan yang tidak disengajakan

· **Langkah perlindungan diri, kelengkapan pelindung dan prosedur kecemasan** Tidak diperlukan.

· **Langkah perlindungan alam sekitar:** Jangan biarkannya memasuki pembentung/air permukaan atau tanah.

· **Kaedah dan bahan untuk pembendungan dan pembersihan:**

*Serap dengan bahan cecair pengikat (pasir, diatomit, pengikat asid, pengikat semesta, habuk papan)*

*Lupuskan bahan tercemar sebagai sisa mengikut perkara 13.*

*Pastikan pengalihudaraan mencukupi.*

(Bersambung ke halaman 3)

## Risalah Data Keselamatan Bahan Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 2)

- **Rujukan ke bahagian lain**  
Lihat Bahagian 7 untuk maklumat pengendalian yang selamat.  
Lihat Bahagian 8 untuk maklumat kelengkapan perlindungan diri.  
Lihat Bahagian 13 untuk maklumat pelupusan.

### 7 Pengendalian dan penyimpanan

- **Pengendalian:**
- **Langkah perlindungan untuk pengendalian selamat**  
Pastikan pengalihudaraan/ekzos yang mencukupi di tempat kerja.  
Elakkan pembentukan aerosol.
- **Maklumat kebakaran dan perlindungan daripada letupan:** Tiada langkah berjaga-jaga yang khusus diperlukan.
- **Keadaan untuk penyimpanan selamat, termasuk apa-apa ketakserasian**
- **Penyimpanan:**
- **Keperluan yang mesti dipenuhi oleh bilik stor dan ruang simpanan.** Tiada keperluan khusus.
- **Maklumat penyimpanan di dalam satu tempat penyimpanan yang biasa:** Tidak diperlukan.
- **Maklumat lanjut tentang syarat penyimpanan:** Pastikan bekas sentiasa bertutup rapat.
- **Kegunaan akhir yang khusus** Tiada maklumat lanjut yang diperolehi.

### 8 Kawalan pendedahan/perlindungan diri

- **Maklumat tambahan tentang reka bentuk kemudahan teknikal:** Tiada maklumat lanjut, lihat perkara 7.
- **Parameter kawalan**
- **Ramuan dengan nilai had yang memerlukan pemantauan di tempat kerja:** Tidak diperlukan.
- **Maklumat tambahan:** Senarai yang sah semasa pembuatan digunakan sebagai asas.
- **Kawalan pendedahan**
- **Kelengkapan perlindungan diri:**
- **Langkah perlindungan dan kebersihan am:**  
Jauhkan daripada makanan, minuman dan makanan haiwan.  
Segera tanggalkan semua pakaian yang tercemar dan kotor.  
Basuh tangan sebelum berhenti rehat dan apabila kerja selesai.  
Elakkan daripada terkena mata.  
Elakkan daripada terkena mata dan kulit.
- **Perlindungan pernafasan:**  
Jika berlaku pendedahan sekejap atau sedikit pencemaran, gunakan alat penapis pernafasan. Jika berlaku pendedahan yang intensif atau berpanjangan, gunakan alat pernafasan perlindungan serba lengkap.
- **Perlindungan tangan:**



Sarung tangan pelindung.

Bahan sarung tangan hendaklah telus dan kalis terhadap produk/bahan/sediaan.  
Oleh sebab tiada ujian yang dijalankan, maka tiada syor bagi bahan sarung tangan yang boleh diberikan untuk produk/sediaan/campuran kimia.

Pemilihan bahan sarung tangan berdasarkan waktu penembusan, kadar pembauran dan degradasi.

- **Bahan sarung tangan**  
Pemilihan sarung tangan yang sesuai bukan hanya bergantung pada bahannya, tetapi juga tanda kualiti lainnya serta perbezaannya daripada satu pengeluaran dengan pengeluaran yang lain.
- **Jangka masa penyerapan bahan sarung tangan**  
Waktu kemunculan yang tepat hendaklah diperolehi pengeluaran sarung tangan pelindung dan hendaklah dipatuhi.

(Bersambung ke halaman 4)

## Risalah Data Keselamatan Bahan Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 3)

· **Perlindungan mata:**



Gogal bertutup rapat

### 9 Ciri fizik dan kimia

· **Maklumat tentang ciri fizik dan kimia**

· **Maklumat Am**

· **Rupa:**

**Bentuk:**

Cecair

**Warna:**

Tidak berwarna

· **Bau:**

Ciri

· **Had ambang bau:**

Tidak ditentukan.

· **Nilai pH:**

neutral

· **Perubahan pada keadaan**

**Takat lebur/Julat lebur:**

-68 °C

**Takat didih/Julat didih:**

185 °C

· **Takat kilat:**

> 100 °C

· **Kemudahbakaran (pepejal, gas)**

Tidak berkenaan

· **Suhu pencucuhan:**

371 °C

· **Suhu penguraian:**

Tidak ditentukan.

· **Pencucuhan sendiri**

Tidak ditentukan.

· **Bahaya letupan:**

Produk tidak ada bahaya letupan.

· **Had letupan :**

**Bawah:**

2,6 Vol %

**Atas:**

12,6 Vol %

· **Tekanan wap pada 20 °C:**

0,11 hPa

· **Ketumpatan pada 20 °C:**

1,0362 g/cm<sup>3</sup>

· **Ketumpatan relatif**

Tidak ditentukan.

· **Ketumpatan wap**

Tidak ditentukan.

· **Kadar penyejatan**

Tidak ditentukan.

· **Keterlarutan dalam / Keterlarutcampuran dengan**

**Air:**

Tidak terlarut campur atau sukar bercampur.

· **Pekali pengasingan (n-oktanol/air)**

Tidak ditentukan.

· **Kelikatan:**

**Dinamik pada 25 °C:**

46 mPas

**Kinematik:**

Tidak ditentukan.

**Pelarut organik:**

99,5 %

· **Maklumat lain**

Tiada maklumat lanjut yang diperoleh.

MY

(Bersambung ke halaman 5)

# Risalah Data Keselamatan Bahan

## Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 4)

### 10 Kestabilan dan kereaktifan

- **Kereaktifan**
- **Kestabilan kimia**
- **Penguraian terma/keadaan yang perlu dielakkan:** Tiada penguraian jika digunakan mengikut spesifikasi.
- **Kemungkinan tindak balas berbahaya** Tiada tindak balas berbahaya yang diketahui.
- **Keadaan yang perlu dielakkan** Tiada maklumat lanjut yang diperoleh.
- **Bahan tidak serasi:** Tiada maklumat lanjut yang diperoleh.
- **Produk penguraian yang berbahaya:** Tiada produk penguraian berbahaya yang diketahui.

### 11 Maklumat toksikologi

- **Maklumat tentang kesan toksikologi**
- **Ketoksikan akut:**

· **Nilai LD/LC50 yang berkaitan untuk pengelasan:**

**57-55-6 propane-1,2-diol**

|       |      |                      |
|-------|------|----------------------|
| Oral  | LD50 | 2000 mg/kg (rat)     |
| Derma | LD50 | 20800 mg/kg (rabbit) |

- **Kesan kerengsaan primer:**
- **pada kulit:** Tiada kesan merengsa.
- **pada mata** Kesan merengsa.
- **Pemekaan:** Tiada kesan pemekaan yang diketahui.
- **Maklumat bagi kumpulan berikut tentang kesan yang mungkin timbul.**
- **Kesan CMR (karsinogen, mutagen dan gangguan kesuburan)**  
Kars. 2

### 12 Maklumat ekologi

- **Ketoksikan**
- **Ketoksikan akuatik:** Tiada maklumat lanjut yang diperoleh.
- **Keterusan dan keterdegradasikan** Tiada maklumat lanjut yang diperoleh.
- **Kelakuan dalam sistem alam sekitar:**
- **Potensi bioakumulatif** Tiada maklumat lanjut yang diperoleh.
- **Mobiliiti di dalam tanah** Tiada maklumat lanjut yang diperoleh.
- **Maklumat tambahan ekologi:**
- **Nota am:**  
Bahaya air kelas 1 (Peraturan Jerman) (Penilaian mengikut senarai): sedikit berbahaya kepada air  
Jangan biarkan produk yang tidak dicairkan atau dalam kuantiti yang banyak memasuki air tanah, saluran air atau sistem pembetungan.
- **Keputusan penilaian PBT dan vPvB**
- **PBT:** Tidak berkenaan
- **vPvB:** Tidak berkenaan
- **Kesan buruk yang lain** Tiada maklumat lanjut yang diperoleh.

MY

(Bersambung ke halaman 6)



## Risalah Data Keselamatan Bahan Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 5)

### 13 Maklumat pelupusan

- **Kaedah rawatan sisa**
- **Syor:**  
Tidak boleh dilupuskan bersama dengan sampah isi rumah. Jangan biarkan produk memasuki sistem pembentungan.
- **Pembungkusan yang tidak bersih:**
- **Syor:** Pelupusan mestilah dijalankan menurut peraturan rasmi

### 14 Maklumat pengangkutan

|   |                 |
|---|-----------------|
| · <b>Nombor UN</b><br>· <b>ADR, ADN, IMDG, IATA</b>                                   | Tidak sah       |
| · <b>Nama penghantaran UN yang betul</b><br>· <b>ADR, ADN, IMDG, IATA</b>             | Tidak sah       |
| · <b>pengangkutan kelas bahaya</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Kelas</b> | Tidak sah       |
| · <b>Kumpulan pembungkusan</b><br>· <b>ADR, IMDG, IATA</b>                            | Tidak sah       |
| · <b>Hazard persekitaran:</b><br>· <b>Bahan cemar marin:</b>                          | Tidak           |
| · <b>Langkah perlindungan khas untuk pengguna</b>                                     | Tidak berkenaan |
| · <b>Pengangkutan dalam pukat menurut Lampiran II MARPOL73/78 dan Kod IBC</b>         | Tidak berkenaan |
| · <b>"Peraturan Model" UN:</b>  | -               |

### 15 Maklumat Pengawalaturan

- **Peraturan/undang-undang keselamatan, kesihatan dan persekitaran khusus untuk bahan atau campuran tersebut**
- **Unsur label GHS** Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).
- **Piktogram hazard**



GHS07 GHS08

- **Perkataan isyarat Amaran**
- **Komponen pelabelan yang menentukan bahaya:**  
propane-1,2-diol
- **Pernyataan hazard**  
Menyebabkan kerengsaan mata yang serius.  
Disyaki menyebabkan kanser.

(Bersambung ke halaman 7)

## Risalah Data Keselamatan Bahan Menurut 91/155 EC

Tarikh cetak 09.06.2015

Disemak semula pada 09.06.2015

**Nama dagang: OIL RED O SOLUTION**

(Sambungan halaman 6)

· **Pernyataan langkah perlindungan**

*Pakai sarung tangan pelindung/pakaian pelindung/perlindungan mata/perlindungan muka.*

*JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.*

*JIKA terdedah atau terkena bahan: Dapatkan nasihat/rawatan perubatan.*

*Jika kerengsaan mata berterusan: Dapatkan nasihat/rawatan perubatan.*

*Simpan di tempat berkunci.*

*Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.*

· **Penilaian keselamatan bahan kimia:** Penilaian Keselamatan Bahan Kimia belum dilakukan.

### 16 Maklumat lain

*Maklumat ini berdasarkan maklumat kami yang terkini. Walau bagaimanapun, ini tidak akan menjadi jaminan bagi apa-apa ciri produk yang khusus dan tidak akan mewujudkan hubungan kontraktual yang sah dari segi undang-undang.*

· **Singkatan dan akronim:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Kreng. Mata 2: Serious eye damage/eye irritation, Hazard Category 2*

*Kars. 2: Carcinogenicity, Hazard Category 2*

MY

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 09.06.2015

Revisión: 09.06.2015

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

- **1.1 Identificador del producto**
- **Nombre comercial:** OIL RED O SOLUTION
- **Número del artículo:** 26504-01
- **Número CAS:**  
57-55-6
- **Número CE:**  
200-338-0
- **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**  
No existen más datos relevantes disponibles.
- **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio
- **1.3 Datos del proveedor de la ficha de datos de seguridad**
- **Fabricante/distribuidor:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Aname**  
C/ Perez Galdos no. 2  
28693 Quijorna  
Madrid, Spain  
Tel: +34.91.816.89.50  
Fax: +34.91.816.85.94  
email: ventas@aname.es
- **Área de información:** Product safety department
- **1.4 Teléfono de emergencia:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

- **2.1 Clasificación de la sustancia o de la mezcla**
- **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS08 peligro para la salud

Carc. 2 H351 Se sospecha que provoca cáncer.



GHS07

Acute Tox. 4 H302 Nocivo en caso de ingestión.

Skin Irrit. 2 H315 Provoca irritación cutánea.

- **2.2 Elementos de la etiqueta**
- **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**  
La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.

( se continua en página 2 )

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( se continua en página 1 )

· **Pictogramas de peligro**

GHS07 GHS08

· **Palabra de advertencia** Atención· **Componentes peligrosos a indicar en el etiquetaje:**

propano-1,2-diol

· **Indicaciones de peligro**

H302 Nocivo en caso de ingestión.

H315 Provoca irritación cutánea.

H351 Se sospecha que provoca cáncer.

· **Consejos de prudencia**

P280 Llevar guantes/prendas/gafas/máscara de protección.

P281 Utilizar el equipo de protección individual obligatorio.

P321 Se necesita un tratamiento específico (ver en esta etiqueta).

P362 Quitarse las prendas contaminadas y lavarlas antes de volver a usarlas.

P405 Guardar bajo llave.

P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

· **2.3 Otros peligros**· **Resultados de la valoración PBT y mPmB**· **PBT:** No aplicable.· **mPmB:** No aplicable.

### SECCIÓN 3: Composición/información sobre los componentes

· **3.1 Caracterización química: Sustancias**· **Denominación N° CAS**

57-55-6 propano-1,2-diol

· **Número(s) de identificación**· **Número CE:** 200-338-0

### SECCIÓN 4: Primeros auxilios

· **4.1 Descripción de los primeros auxilios**· **En caso de inhalación del producto:** Suministrar aire fresco. En caso de trastornos, consultar al médico.· **En caso de contacto con la piel:** Por regla general, el producto no irrita la piel.· **En caso de con los ojos:**

Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.

· **En caso de ingestión:** Consultar un médico si los trastornos persisten.· **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.· **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**

No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

· **5.1 Medios de extinción**· **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.

( se continua en página 3 )

# Ficha de datos de seguridad

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- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** No se requieren medidas especiales.

### SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.
- **6.2 Precauciones relativas al medio ambiente:**  
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**  
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).  
Desechar el material contaminado como vertido según ítem 13.  
Asegurar suficiente ventilación.
- **6.4 Referencia a otras secciones**  
Ver capítulo 7 para mayor información sobre una manipulación segura.  
Ver capítulo 8 para mayor información sobre el equipo personal de protección.  
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**  
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.  
Evitar la formación de aerosoles.
- **Prevención de incendios y explosiones:** No se requieren medidas especiales.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
Sin datos adicionales, ver punto 7.
- **8.1 Parámetros de control**
- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:** Nulo.
- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.
- **8.2 Controles de la exposición**
- **Equipo de protección individual:**
- **Medidas generales de protección e higiene:**  
Mantener alejado de alimentos, bebidas y alimentos para animales.  
Quitarse de inmediato la ropa ensuciada o impregnada.  
Lavarse las manos antes de las pausas y al final del trabajo.  
Evitar el contacto con los ojos.  
Evitar el contacto con los ojos y la piel.
- **Protección respiratoria:**  
Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

( se continua en página 4 )

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### · Protección de manos:



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

### · Material de los guantes

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

### · Tiempo de penetración del material de los guantes

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

### · Protección de ojos:



Gafas de protección herméticas

## SECCIÓN 9: Propiedades físicas y químicas

### · 9.1 Información sobre propiedades físicas y químicas básicas

#### · Datos generales

##### · Aspecto:

Forma: Líquido

Color: Incoloro

· Olor: Característico

· Umbral olfativo: No determinado.

· valor pH: neutral

#### · Cambio de estado

Punto de fusión /campo de fusión: -68 °C

Punto de ebullición /campo de ebullición: 185 °C

· Punto de inflamación: > 100 °C

· Inflamabilidad (sólido, gaseiforme): No aplicable.

· Temperatura de ignición: 371 °C

· Temperatura de descomposición: No determinado.

· Autoinflamabilidad: No determinado.

· Peligro de explosión: El producto no es explosivo.

#### · Límites de explosión:

Inferior: 2,6 Vol %

Superior: 12,6 Vol %

· Presión de vapor a 20 °C: 0,11 hPa

· Densidad a 20 °C: 1,0362 g/cm<sup>3</sup>

· Densidad relativa: No determinado.

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|   |  |
|---|--|
| · <b>Densidad de vapor</b>                        | No determinado.                              |
| · <b>Velocidad de evaporación</b>                 | No determinado.                              |
| · <b>Solubilidad en / miscibilidad con agua:</b>  | Poco o no mezclable.                         |
| · <b>Coeficiente de reparto (n-octanol/agua):</b> | No determinado.                              |
| · <b>Viscosidad:</b>                              |  |
| <b>Dinámica a 25 °C:</b>                          | 46 mPas                                      |
| <b>Cinemática:</b>                                | No determinado.                              |
| · <b>Concentración del disolvente:</b>            |  |
| <b>Disolventes orgánicos:</b>                     | 99,5 %                                       |
| <b>VOC (CE)</b>                                   | 99,50 %                                      |
| · <b>9.2 Información adicional</b>                | No existen más datos relevantes disponibles. |

### SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad**
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas:** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse:** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda**

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

**57-55-6 propano-1,2-diol**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 2000 mg/kg (rat)     |
| Dermal | LD50 | 20800 mg/kg (rabbit) |

- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas:** No produce irritaciones.
- **Lesiones o irritación ocular graves:** Produce irritaciones.
- **Sensibilización respiratoria o cutánea:** No se conoce ningún efecto sensibilizante.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**  
Carc. 2

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad:** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación:** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo:** No existen más datos relevantes disponibles.

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- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
*Nivel de riesgo para el agua 1 (clasificación de listas): escasamente peligroso para el agua*  
*En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.*
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.

### SECCIÓN 14: Información relativa al transporte

- |  |               |
|--|---------------|
| · <b>14.1 Número UN</b>  |               |
| · <b>ADR, ADN, IMDG, IATA</b>  | suprimido     |
| · <b>14.2 Designación oficial de transporte de las Naciones Unidas</b>                               |               |
| · <b>ADR, ADN, IMDG, IATA</b>  | suprimido     |
| · <b>14.3 Clase(s) de peligro para el transporte</b>   |               |
| · <b>ADR, ADN, IMDG, IATA</b>  |               |
| · <b>Clase</b>   | suprimido     |
| · <b>14.4 Grupo de embalaje</b>  |               |
| · <b>ADR, IMDG, IATA</b>   | suprimido     |
| · <b>14.5 Peligros para el medio ambiente:</b>   |               |
| · <b>Contaminante marino:</b>  | No            |
| · <b>14.6 Precauciones particulares para los usuarios</b>  | No aplicable. |
| · <b>14.7 Transporte a granel con arreglo al anexo II del Convenio Marpol 73/78 y del Código IBC</b> | No aplicable. |
| · <b>"Reglamentación Modelo" de la UNECE:</b>  | -             |

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** No contiene la sustancia.
- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

ES

( se continua en página 7 )



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**SECCIÓN 16: Otra información**

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

**· Abreviaturas y acrónimos:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Carc. 2: Carcinogenicity, Hazard Category 2

ES